

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: )  
Saltiel )  
              )  
Serial No. 10/649,287      )      Examiner: Edna Wong  
                                )  
Filing Date: August 27, 2003 )      Art Unit: 1753  
                                )  
For: Photochemical Synthesis )  
      Of Vitamin Ds            )  
                                )  
                                )

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AMENDMENT AFTER FINAL

Commissioner for Patents  
Alexandria, VA 22313-1450

Sir:

In response to the final Office action mailed on October 13, 2006, please enter the following amendment and response. This amendment is limited to cancelling rejected claims so that allowed claims 1-10 and 24-29 may proceed to issuance.

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**In the Claims**

Please substitute the claims as set forth below in a complete listing, cancelling claims 11-23 without prejudice. There are no claim amendments presented at this time.

1.(previously presented) A process for the production of previtamin D, the process comprising:

a first irradiation of a reaction mixture containing provitamin D with light energy having a wavelength of approximately 254 nm; and

a second irradiation of said reaction mixture with light energy having a wavelength of approximately 313 nm, the reaction mixture containing no photosensitizer.

2.(original) The process of claim 1, wherein the first and second irradiations are sequential.

3.(original) The process of claim 1, wherein the reaction mixture further contains a solvent.

4.(original) The process of claim 1, wherein the reaction mixture further contains an organic solvent.

5.(original) The process of claim 1, wherein the reaction mixture further contains methanol.

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6.(previously presented) A process for producing previtamin D, the process comprising:  
a first irradiation of a reaction mixture containing provitamin D in the absence  
of a photosensitizer with light energy having a wavelength of approximately from  
240 to 265 nm and a second irradiation of said reaction mixture with light energy  
having a wavelength of approximately from 300 to less than 330 nm and in the  
absence of a photosensitizer.

7.(original) The process of claim 6, wherein the first and second irradiations are  
sequential.

8.(original) The process of claim 6, wherein the reaction mixture further contains a  
solvent.

9.(original) The process of claim 6, wherein the reaction mixture further contains an  
organic solvent.

10.(original) The process of claim 6, wherein the reaction mixture further contains  
methanol.

11-23.(cancelled)

24.(previously presented) A process for production of vitamin D by light irradiation without  
the use of a photosensitizer, the process comprising:

a first irradiation of a reaction mixture containing provitamin D without a  
photosensitizer with light energy having a wavelength of approximately from 240 to  
265 nm;

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a second irradiation of said reaction mixture without photosensitizer with light energy having a wavelength of approximately from 300 to less than 330 nm; and heating the reaction mixture after the second irradiation.

25.(original) The process of claim 24, wherein heating consists of a temperature not exceeding 100° C.

26.(original) The process of claim 24, wherein the first and second irradiations are sequential.

27.(previously presented) The process of claim 24, wherein the reaction mixture further contains a solvent.

28.(previously presented) The process of claim 24, wherein the reaction mixture further contains an organic solvent.

29.(previously presented) The process of claim 24, wherein the reaction mixture further contains methanol.

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**REMARKS**

Applicant gratefully acknowledges the Examiner's careful review of this application and her helpful suggestions during its prosecution.

This After Final amendment is limited to cancelling the non-allowed claims. Therefore, since all claims remaining in the case stand allowed, Applicant respectfully requests that the Examiner issue a Notice of Allowance at her earliest convenience.

Respectfully submitted,

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